

CLAIMS

1. A thermoplastic resin film that is a multilayer film comprising at least two layers and comprises a thermoplastic resin, wherein the thermoplastic resin film comprises: a printing layer positioned on one surface or both surfaces; and inside the printing layer, an intermediate layer containing a non-transfer antistatic agent.

2. The thermoplastic resin film described in claim 1, wherein the thermoplastic resin film is stretched in at least a uniaxial direction.

3. The thermoplastic resin film described in claim 1, wherein the printing layer has a printing surface having a surface resistivity of from 1×10^8 to $1 \times 10^{14} \Omega$.

4. The thermoplastic resin film described in claim 1, wherein the printing layer has a printing surface having an ink adhesion strength of from 0.5 to 10 kg·cm.

5. The thermoplastic resin film described in claim 1, wherein the printing surface of the printing layer is subjected to an activation treatment.

6. The thermoplastic resin film described in claim 5, wherein after subjecting the printing surface to the activation treatment, a coating agent layer having ink an adhesion property is provided.

7. The thermoplastic resin film described in claim 1, wherein the multilayer film contains inorganic fine powder and/or organic filler.

8. The thermoplastic resin film described in claim 1, wherein the antistatic agent includes a polyamide copolymer as a main component.

9. The thermoplastic resin film described in claim 8, characterized in that the antistatic agent includes a polyether ester amide as a main component.

10. The thermoplastic resin film described in claim 9, wherein the intermediate layer contains a thermoplastic resin composition containing

Component a: thermoplastic resin	5 to 95% by weight
Component b: polyether ester amide	5 to 35% by weight
Component c: polyamide resin	0 to 20% by weight
Component d: inorganic fine powder and/or organic filler	0 to 70% by weight

11. The thermoplastic resin film described in claim 10, wherein the component a of the intermediate layer is a polyolefin resin.

12. The thermoplastic resin film described in claim 10, wherein the intermediate layer contains from 0.01 to 5% by weight of a metallic salt as component e.

13. The thermoplastic resin film described in claim 10, wherein the intermediate layer contains from 0.5 to 20% by weight of an ionomer as component f.

14. The thermoplastic resin film described in claim 10, wherein the intermediate layer contains 1 to 20% by weight of a modified low molecular weight polyolefin as component g.

15. The thermoplastic resin film described in claim 5, wherein after subjecting the printing surface to the activation treatment, a pigment coating layer is provided.

16. The thermoplastic resin film described in claim 1, wherein the intermediate layer contains a thermoplastic resin composition containing

Component a: thermoplastic resin	5 to 95% by weight
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Component b: polyether ester amide 5 to 35% by weight
Component c: polyamide resin 0 to 20% by weight
Component d: inorganic fine powder and/or organic filler
 0 to 70% by weight

17. The thermoplastic resin film described in claim 16, wherein the component a of the intermediate layer is a polyolefin resin.

18. The thermoplastic resin film described in claim 16, wherein the intermediate layer contains from 0.01 to 5% by weight of a metallic salt as component e.

19. The thermoplastic resin film described in claim 16, wherein the intermediate layer contains from 0.5 to 20% by weight of an ionomer as component f.

20. The thermoplastic resin film described in claim 16, wherein the intermediate layer contains 1 to 20% by weight of a modified low molecular weight polyolefin as component g.